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TITLE: METHOD FOR MEASURING CONCENTRATION OF SOLUTE IN LIQUID DROP BY USING QUARTZ OSCILLATOR
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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a technique by which the concentration of a solute in a protein crystallization reaction process is grasped easily and precisely.

SOLUTION: A liquid drop in which a protein for protein crystallization as an object is dissolved is placed on the detecting electrode of a quartz oscillator. A change in the concentration of a solute inside a liquid drop solution due to the evaporation of moisture from the liquid drop during a crystallization reaction is quantitatively determined on the basis of a change in the reference oscillation frequency of the quartz oscillator. Thereby, the concentration of the solute in an evaporation process is calculated together with the initial concentration of the solute (a protein and a crystallization reagent) when the liquid drop is prepared.

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